

DYNAMIC MODULAR PKI ARCHITECTURE**ABSTRACT**

A architecture for implementing PKI technology is described. Individual
5 processing modules responsive to events are initiated. These individual
software module building blocks, or "beans" are placed and linked together in an
assembly line-like manner. Each bean is responsive to particular events and
does one particular action in the scheme. For example, individual beans are
responsive to different format PKI requests from a network, and in turn generate
10 an event corresponding to that request. The event is broadcast to other beans
that take the event and perform some other operation in the defined process.
Other beans include certificate generators, publishers, manipulators,
broadcasters to output streams, and also beans that can act as boolean
branches. When strung together, the beans form a cohesive PKI schema. The
15 ability to place beans in the flow and remove them allows great flexibility in
developing PKI implementations. Typically, the beans are written in a
environment and platform neutral manner, such as the Java® programming
language. Not only may the beans be used to build both defined and
customized PKI schemas easily, but the schemas may be spread out among
20 many computing devices. Additionally, the use of Java® allows for fast
implementation of additions to PKI schemas. Therefore, as new certificate
standards, new formats, or new dissemination methods are developed,

appropriate beans may be written to implement these and dropped into place seamlessly.